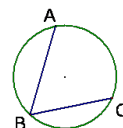


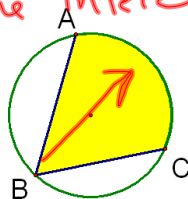
11.5 Inscribed Angles and Polygons

Inscribed angle-is an angle whose vertex is on a circle and whose sides contain chords of the circle.

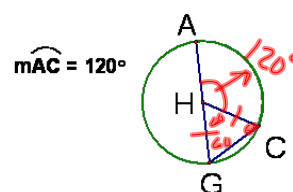


Intercepted arc-is the arc formed by the angle

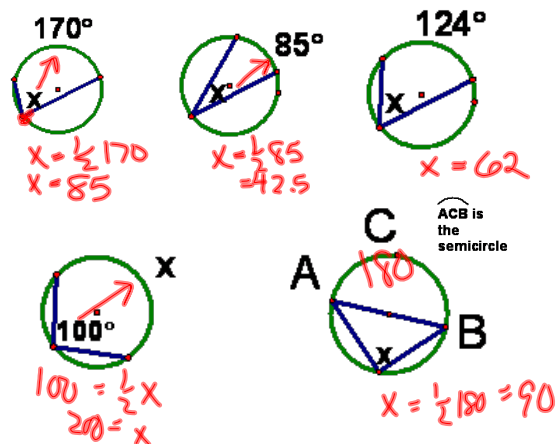
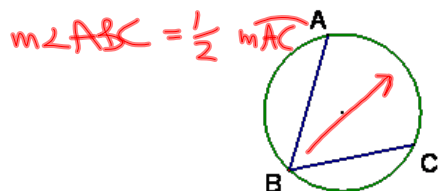
CA is the intercepted



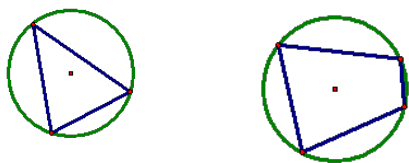
Find:
 $m\angle AHC = \underline{120}$
 $m\angle AGC = \underline{60}$



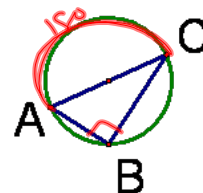
Theorem 11.7-If an angle is inscribed in a circle, then its measure is half of the measure of its intercepted arc.

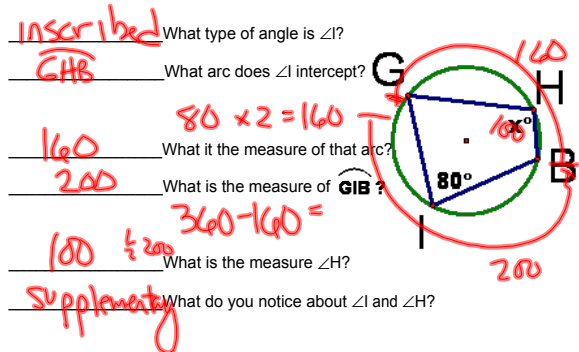
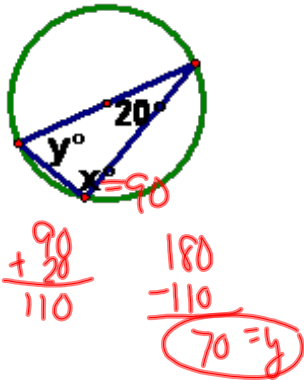


If all of the vertices of a polygon lie on a circle, then the polygon is **inscribed** in the circle, and the circle is **circumscribed** about the polygon.

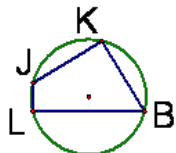


Theorem 11.8-If a **right** triangle is inscribed in a circle, then the **hypotenuse** is the **diameter**.

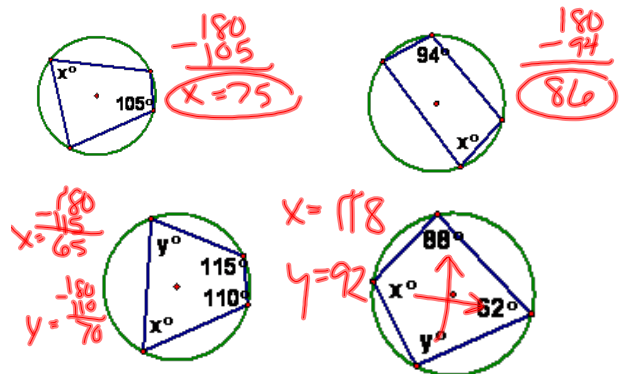




Theorem 11.9-If a quadrilateral is inscribed in a circle, then opposite angles are supplementary.



$\angle K + \angle L$ are supplementary
 $\angle J + \angle B$ are supplementary



HW

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9-22, 28-30, 32, 33